

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	9070903
<b>Application Number:</b>	10781951
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4445
<b>Title of Invention:</b>	Transmit diversity and spatial spreading for an OFDM-based multi-antenna communication system
<b>First Named Inventor/Applicant Name:</b>	J. Rodney Walton
<b>Customer Number:</b>	23696
<b>Filer:</b>	James Hunt Yancey/Angeline Geronimo
<b>Filer Authorized By:</b>	James Hunt Yancey
<b>Attorney Docket Number:</b>	040235
<b>Receipt Date:</b>	20-DEC-2010
<b>Filing Date:</b>	18-FEB-2004
<b>Time Stamp:</b>	11:28:36
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 180
RAM confirmation Number	9588
Deposit Account	170026
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

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## File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	040235_2010_12_17_IDS_S.pdf	44576 c0bf8c4c4a080995f46a9f97e071a3f6044	no	4
<b>Warnings:</b>					
<b>Information:</b>					
This is not an USPTO supplied IDS fillable form					
2	Foreign Reference	EP1073214_A1_17.pdf	256916 c905e232108516da038291de5113c09c4fdd5c4	no	23
<b>Warnings:</b>					
<b>Information:</b>					
3	Foreign Reference	EP1185001A2_18.pdf	2703049 c0f8daa19c1bf534b789f07ca24a2678daa48057	no	20
<b>Warnings:</b>					
<b>Information:</b>					
4	Foreign Reference	JP1999205026_19.pdf	4568738 6ed8bc95a46b3751558ab49ed684070dfe1a052	no	17
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<b>Information:</b>					
5	Foreign Reference	JP2002503048_20.pdf	7360877 e2b46c7fc2bcb6c3a62b599cc07e7b276e116	no	53
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6	Foreign Reference	JP2004064654_21.pdf	1799614 a9c69266522ef01073da33e14af8a84bc79b509	no	13
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7	Foreign Reference	JP2004072150A_22.pdf	503522 69cda0249f952adea2078efc4036543215aa3945	no	32
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8	Foreign Reference	JP2004096753A_23.pdf	565521 82c68f6587015e90d4703dca9a26a2d57c164	no	13
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9	Foreign Reference	JP2004104790A_24.pdf	646576 d8b5ecbafca6405785384c29f8a03ac1528ee4	no	21
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10	Foreign Reference	JP2005524331A_25.pdf	585058 f9f9bcd81372ddcd9d80bae426d855a5dd597496a2	no	22
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11	Foreign Reference	JP2007515829A_26.pdf	822560 603788475ce7978b5c5e46d8bb55dc1cc286c51ee2	no	44
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12	Foreign Reference	JP2007523549A_27.pdf	1471446 #9c4e928578b9a5ba0bbecad9f6a1d6d8ee4	no	69
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13	Foreign Reference	JP2007523550A_28.pdf	1301583 f16efcb05de4ff0231a89499381eebd1893ee02f	no	62
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14	Foreign Reference	JP2007529972A_29.pdf	490853 e5ad816337ce6820bbd111c6dbaae49817c3a7c	no	18
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15	Foreign Reference	JP2007538414A_30.pdf	537188 67e9141c7823a3a26b38b3c732a8581e88a9902	no	23
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16	Foreign Reference	WO02025857_31.pdf	4161799 #1e220dacc7a765305d921e59088351e45e8708	no	38
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17	Foreign Reference	WO03063526_32.pdf	15265445 8c880e31794f5c2a4c2667ad3d89c3a8999d1290	no	53
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18	Foreign Reference	WO-2003-094386_33.pdf	53406	no	2
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19	Foreign Reference	WO05099211_34.pdf	8320257	no	28
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20	NPL Documents	AUER_G_CHANNEL_ESTIMATION_VOL_3_PP_1792_1796_year_2004_35.pdf	1286750	no	5
			2273c02748707f6646455b5c7c4b70b2a6ae67		
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21	NPL Documents	Bauch_et_al_pp_17_24_year_2004_36.pdf	1396523	no	8
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22	NPL Documents	MASOUD_SHARIF_et_al_year_2003_37.pdf	864461	no	5
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23	NPL Documents	WIRELESS_ANTENNAS_FOR_WIRELESS_SYSTEMS_38.pdf	8565054	no	113
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24	Fee Worksheet (PTO-875)	fee-info.pdf	30328	no	2
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Warnings:					
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Total Files Size (in bytes):			63602100		

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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.